

Page # 3

1 of 7

INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)

Atty. Docket No.: 97020CIP2CON2 Serial No.: Not assigned

Applicant: Khaled MAHMUD et al.

Filing Date: October 11, 2001 Group: 1714

J1050 U.S. PTO
09/19/97 5699
10/11/01

U.S. PATENT DOCUMENTS

Examiner Initial*	Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
MAJ	1,999,573	04/30/35	Odell	134	60	
	2,121,535	06/21/38	Amon	106	475	
	2,375,795	05/15/45	Krejci	23	209.8	
	2,439,442	04/13/48	Amon et al.	23	209.1	
	2,564,700	08/21/51	Krejci	23	209.4	
	2,632,713	03/24/53	Krejci	106	307	
	2,793,100	05/21/57	Weihe	423	460	
	2,867,540	01/06/59	Harris	106	476	
	3,011,902	12/05/61	Jordon	106	30R	
	3,025,259	03/13/62	Watson et al.	106	476	
	3,094,428	06/18/63	Hamilton et al.	106	307	
	3,188,225	06/65	Walker	106	291	
	3,203,819	08/31/65	Steenken et al.	106	307	
	3,290,165	05/02/67	Iannicelli	106	308	
	3,317,458	05/02/67	Clas et al.	260	41.5	
	3,335,020	08/08/67	Aboytes et al.	106	476	
	3,390,006	06/25/68	Takewell et al.	106	475	
	3,423,391	01/21/69	Kindler et al.	106	20R	
	3,528,840	09/15/70	Aboytes	106	473	
	3,622,650	11/23/71	Berstein et al.	260	763	
MAJ	3,660,132	05/02/72	Illigen et al.	106	307	

MAT	3,663,285	05/16/72	Graf et al.	106	308	
MAT	3,671,476	06/20/72	Terai et al.	260	23	
MAT	3,676,070	7/11/72	Vanderveen, et al.	23	209.4	
MAT	3,686,111	08/22/72	Makhloaf et al.	524	530	
MAT	3,689,452	09/05/72	Burke, Jr.	260	33.6	
MAT	3,716,513	02/13/73	Burke, Jr.	260	33.6	
MAT	3,864,455	2/4/75	Vanderveen	423	450	
	3,997,356	12/14/76	Thurn et al.	106	288	
	4,006,031	02/01/77	Ferch et al.	106	473	
	4,014,844	03/29/77	Vidal et al.	106	472	
	4,108,679	08/22/78	Szczepanik et al.	106	307	
	4,211,578	07/08/80	Scott, IV	106	475	
	4,221,693	09/09/80	Getson et al.	260	37	
	4,265,768	05/05/81	Beasley et al.	210	682	
	4,297,145	10/27/81	Wolff et al.	106	308	
	4,320,011	03/16/82	Sato et al.	210	694	
	4,366,139	12/28/82	Kühner et al.	423	449	
	4,452,638	06/05/84	Gallus	106	97	
	4,530,961	07/23/85	Nguyen et al.	106	20R	
	4,537,633	08/27/85	Hong	106	96	
	4,590,052	05/20/86	Chevallier et al.	423	335	
	4,597,794	07/01/86	Ohta et al.	106	20C	
	4,670,059	06/02/87	Hackleman et al.	106	475	
	4,751,204	06/14/88	Kyoden et al.	501	89	
	4,820,751	04/11/89	Takeshita et al.	523	215	
	4,831,011	05/16/89	Oikawa et al.	502	406	
	4,929,391	05/29/90	Kroupa	252	511	
✓	5,130,363	07/14/92	Scholl et al.	524	392	
MAT	5,149,732	09/22/92	Igarashi et al.	524	426	

MAT	5,159,009	10/27/92	Wolff et al.	106	475	
I	5,184,148	02/02/93	Suga et al.	106	20R	
I	5,190,582	03/02/93	Shinozuka et al.	106	20D	
MAT	5,205,866	4/27/93	Kiss et al.	106	475	
I	5,227,425	07/13/93	Rauline	524	493	
I	5,281,261	01/25/94	Lin	106	20R	
I	5,282,887	02/01/94	Gay et al.	106	261	
I	5,286,291	02/94	Bernhardt et al.	106	475	
I	5,294,253	03/94	Carlson et al.	106	475	
MAT	5,294,585	03/15/94	Moreau et al.	502	413	
I	5,328,949	02/94	Sandstrom et al.	524	262	
I	5,336,730	08/09/94	Sandstrom et al.	524	492	
I	5,401,313	03/28/95	Supplee et al.	106	475	
I	5,401,789	03/95	Wolff et al.	523	213	
MAT	5,411,577	05/02/95	Moreau et al.	95	96	
I	5,430,087	07/95	Carlson et al.	106	475	
I	5,502,146	03/26/96	Inoue et al.	528	34	
I	5,554,739	09/10/96	Belmont	534	885	
I	5,559,169	09/24/96	Belmont et al.	523	215	
I	5,571,311	11/05/96	Belmont et al.	106	20R	
I	5,575,845	11/19/96	Belmont et al.	106	712	
I	5,580,919	12/03/96	Agostini et al.	524	430	
MAT	5,622,557	04/22/97	Mahmud et al.	106	712	
I	5,630,868	05/20/97	Belmont et al.	106	31.75	
I	5,654,357	08/05/97	Menashi et al.	524	495	
I	5,672,198	09/30/97	Belmont	106	20	
I	5,679,728	10/21/97	Kawazura	523	216	
I	5,698,016	12/16/97	Adams et al.	106	31.6	
I	5,707,432	01/13/98	Adams et al.	106	31.6	
MAT	5,713,988	02/03/98	Belmont et al.	106	31.6	

MAT	5,747,562	5/5/98	Mahmud et al.	523	215	
	5,749,950	5/12/98	Mahmud et al.	106	316	
	5,830,930	11/3/98	Mahmud et al.	523	215	
	5,859,120	1/12/99	Karl et al.	524	495	
	5,863,323	1/26/99	Mahmud et al.	106	712	
	5,869,550	2/9/99	Mahmud et al.	523	215	
	5,877,238	3/2/99	Mahmud et al.	523	215	
MAT	5,904,762	5/18/99	Mahmud et al.	106	475	
	5,916,934	6/29/99	Mahmud et al.	523	215	
	5,919,841	7/6/99	Mahmud et al.	523	351	
	5,919,855	7/6/99	Reed	524	496	
	T-860-001	03/18/69	Gessler			
MAT	5,948,835	9/7/99	Mahmud et al.	523	215	
MAT	5,977,213	11/2/99	Mahmud et al.	523	351	
MAT	6,017,980	1/25/00	Wang et al.	523	215	
MAT	6,020,402	2/1/00	Anand et al.	523	212	
MAT	6,028,137	2/22/00	Mahmud et al.	524	496	
MAT	6,057,387	5/2/00	Mahmud et al.	523	215	
MAT	6,068,688	5/30/00	Whitehouse et al.	106	31.65	
MAT	6,211,279	4/3/01	Mahmud et al.	524	492	

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Sub Class	Translation Yes or No
	0 006 190 A1	01/09/80	Europe			No (Cited in PCT Search Report)
MAT	0 468 140 A2	01/92	Europe			
	0 862 018	03/01/61	Great Britain			
	1,139,620	01/69	Great Britain	106	475	
	1,191,872	05/13/70	Great Britain			
MAT	2 188 311 A	09/30/87	Great Britain			

	1,230,893	09/20/60	France			No
	1,331,889	05/27/63	France			No (Cited In PCT Search Report)
*	2,355,758	05/15/75	Germany			Yes - Claims
	MAT	WO 91/15425	01/17/91	PCT		
*	MAT	WO 91/02034	08/09/90	PCT		N/O
	MAT	WO 92/13983	08/20/92	PCT		
	MAT	WO 95/01838	01/19/95	PCT		
		WO 96/37546	11/28/96	PCT		
		WO 96/37547	11/28/96	PCT		
		WO 96/18688	06/20/96	PCT		
		WO 96/18689	06/20/96	PCT		
		WO 96/18694	06/20/96	PCT		
		WO 96/18695	06/20/96	PCT		
		WO 96/18696	06/20/96	PCT		
	MAT	WO 97/10291	03/20/97	PCT		
		ISR 96/14583	02/21/97	PCT		
		ISR 97/17134	01/22/98	PCT		
		ISR 97/08049	05/13/97	PCT		
		ISR 97/08854	11/06/97	PCT		
		E 72775	04/28/60	France		No (Cited in PCT Search Report)
F		5,178,604	07/20/93	Japan		Yes
F		1,459,019		France (Abstract)		
F		1,499,348		France (Abstract)		
F		59/82,467	05/12/84	Japan (Abstract)		Yes
F		6,067,421	03/11/94	Japan (Abstract)		Yes
	MAT	0 475 075 A1	03/18/92	Europe		
		675 175	10/04/95	Europe		
F		8,073,657		Japan		

* US Equivalent cited by Examiner

F Cited in "Other Documents" by Examiner

	1 948 443	04/08/71	Germany			No
	195 20 946 A1	12/12/96	Germany			
	3 502 494		Germany			Yes
	3 813 678 A1	11/10/88	Germany			No
F	0 050 354	04/28/92	Europe			No
F	56 078629	6/27/81	Japan (Abstract)			Yes
F	62 250073	10/30/87	Japan (Abstract)			Yes
MAT	0 711 805 A1	05/15/96	Europe			
MAT	0 799 854 A1	10/08/97	Europe			
MAT	0 799 867 A1	10/08/97	Europe			
MAT	2 296 915 A	07/17/96	Great Britain			
	2403545 A1	8/14/75	Germany	CO9C	1/50	No (See Int'l Search Report)
	0 799 866 A2	10/8/97	Europe	CO9C	150	No (See Int'l Search Report)
MAT	0 278 743 A1	8/17/88	Europe	CO9C	1/56	Yes
MAT	WO 97/47698	12/18/97	PCT	CO9C	11/00	
MAT	0 896 978 A2	2/17/99	Europe			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

MAT	Derwent Abstract, AN No. 80-03330C, "Sulphonated Carbon Pigment Production by Treating Technical Grade Carbon with Hot Aqueous Acid," SU,A,659, 523, April 1979					
MAT	Derwent Abstract, AN No. 82-28019E, "Penetrating Flexographic Print Ink Based Polyacrylic Resin," 10/17/79, SU,A, 834062					
MAT	Derwent Abstract, AN No. 86-335147, "Wear Resistant Rubber Composition for Tire Tread Rubber," 04/30/85, JPA 61-250042, November 1986					
MAT	Derwent Abstract, AN No. 88-116672 "Surface Treatment of Carbon Black for Powder Coating ...," 03/22/88, JPA 86 0208468					
MAT	Derwent Abstract, AN No. 93-261471, "Carbon Black for Coating Magnetic Recording Media - Having Silicon Dioxide Coating, Giving Good Dispersibility, Lubrication, etc.," Japanese Patent Application No. 5178604, 07/20/93.					
MAT	Derwent Abstract, AN No. 95-183086, "Tire Treated Rubber Composition," 10/21/93, JPA 07102116					
MAT	Derwent Abstract, AN No. 94-189154, "Ink for Writing Implements," 05/10/94, JPA 61-28517A					

MAT	Patent Abstracts of Japan Publication No. JP7102116, "Rubber Composition for Tire Tread," 04/18/95
MAT	Moschopedis, et al., "The Reaction of Diazonium Salts with Humic Acids and Coals: Evidence for Activated Methylene Bridges in Coals and Humic Acids," <i>Fuel</i> , Vol. 43, No. 4, pp. 289-98, 1964, no month.
MAT	Roberts et al., <u>Basic Principles of Organic Chemistry</u> , Second Edition, W.A. Benjamin, Inc., Pub., pg. 1080, no date available.
MAT	Zoheidi et al., "Role of Oxygen Surface Groups in Catalysis of Hydrogasification of Carbon Black by Potassium Carbonate," <i>Carbon</i> , Vol. 25, No. 6, pp. 809-810, 1987, no month available. # 811
MAT	Delamar et al., <i>J. Am. Chem. Soc.</i> 1992, 114, 5883-5884, no month available.
MAT	Concise Encyclopedia of Polymer Science and Engineering, Wiley, 1990, pages 104-105
MAT	Carbon (Carbon Black) reprinted from KIRK-OTHMER: ENCYCLOPEDIA OF CHEMICAL TECHNOLOGY, Volume 4, Third Edition, pages 631-643, 1978
T MAT	Patent Abstracts of Japan, Vol. 10, No. 112 (C-342), April 25, 1986, JP 60 240768 A (Toukai Carbon) dated November 29, 1985.
	International Search Report dated July 30, 1998 for PCT/US98/07554 filed April 17, 1998.
Examiner	Date Considered
MATTHEW A. THEXTON	23 DECEMBER 2002
*Examiner:	Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
Form PTO 1449	Patent and Trademark Office - U.S. Department of Commerce